

Date: Mon, 6 Sep 93 04:30:18 PDT
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V93 #38
To: Ham-Ant

Ham-Ant Digest Mon, 6 Sep 93 Volume 93 : Issue 38

Today's Topics:

 Log Periodic Formula?
 Multiband Hustler on Ford Aerostar?
 ta 33 help!

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 6 Sep 1993 00:50:20 GMT
From: korie!newscast.West.Sun.COM!seven-up.East.Sun.COM!news2me.EBay.Sun.COM!
exodus.Eng.Sun.COM!craiga%eng.sun.com@ames.arpa
Subject: Log Periodic Formula?
To: ham-ant@ucsd.edu

Hello,

Anyone happen to have the formula describing Log Periodic antennas lying
around? I bought an antenna from a guy at a flea market who said he built
it as a log periodic for 440MHz. He said he was a bit confused because he had
seen several different formulas for log periodics and wasn't sure which was
right. The antenna seems to work fine, but I would like to check his
measurements. I can't check any closer than the measurements because I
don't have a field strength meter or an SWR meter. But if anyone has the
right formula, I would appreciate seeing it (or a pointer to it).

Thanks very much,
Craig N6YXK

PS. If it helps, the antenna is made of 1/2" aluminum pipes and 3/16" aluminum

rods.

Date: Sun, 5 Sep 1993 21:12:44 GMT
From: infonode!ingr!b17news!monty.b17b.ingr.com!gjmontll@uunet.uu.net
Subject: Multiband Hustler on Ford Aerostar?
To: ham-ant@ucsd.edu

In article <1993Sep3.144406.18057@newsgate.sps.mot.com>, Chris Terwilliger
<a229aa@email.sps.mot.com> writes:
|> In article <CCrx1y.2J3@news.udel.edu> Robert Penneys,
|> penneys@brahms.udel.edu writes:
|> >I am now driving a Ford Aerostar minivan, an excellent ham vehicle,
|> by the way.
|> >
|> >I want to mount my Hustler with the foldover mast and four resonators.....

I have a "Draw-tite" trailer hitch on my Aerostar. This is the hitch where the
ball is mounted on a square piece of stock, and plugs into a square hole on
the frame. I mounted my antenna ball on a flat, thick piece of metal and
bolted this along side the trailer ball.

With a spring at the base, and normally inclined back about 20degrees, to open
the tailgate, I just bend the mast back (after unhooking the guy line that is
clipped to the roof rack.)

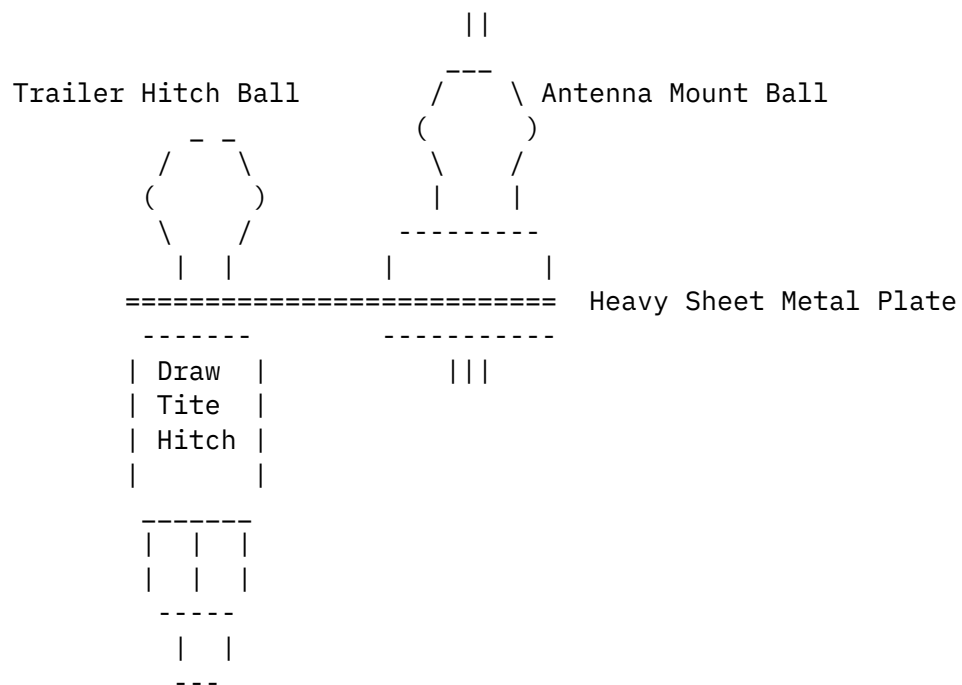
Even if you don't have a hitch, some similar centerline mounting may meet your
needs. Your problem with overhanging obstructions/garages will occur regardless
of method or vehicle.

When using multiple resonators, a guyline is a must!

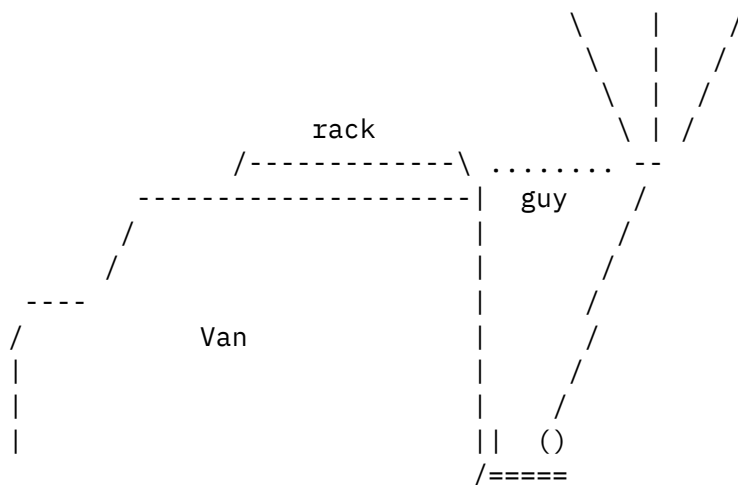
Here's a rear view of the hitch assembly.

```

Hustle Mast  -->  ||
                  ||
                  --
                  //
                  ///
Heavy Duty Spring  /////
                  /////
                  ///
                  / /
```



And a side view: You should lean it back, maybe not as much as these ASCII graphics show, but keep it as far from the body as you can tolerate from safety, structural, and aesthetic (hihi) aspects.



Good Luck:
Greg AC4WF

Gregory Montllor Mapping Sciences / System Integration & Implementation
mailstop IW17B4 Intergraph Corp. Huntsville, Alabama USA 35894-0001

Rick, there's only one way for an SWR on a transmission line to go from being "outrageous on the twin-lead side" to being acceptable at the other end of a G5RV and that is losses. Here's a quote from the ARRL Antenna Handbook: "...a line terminated in a short or open circuit (infinite SWR), and having an attenuation of 15db, would exhibit an SWR of only 1.05 at its input." Just because you read an acceptable SWR at the transceiver end doesn't mean that the antenna is doing a good job.

My calculations indicate that a G5RV loses more than half of the transmitted power in the RG-59 coax at 21.35MHz. If I didn't make a mistake in my calculations, you are looking into 18-j156 at the G5RV balun on 21.35 MHz. and that's an SWR of 35 for a 50 ohm line. I think the major cause of global warming is the heat dissipated in G5RVs all over the world.

Best of 73s, KG7BK

End of Ham-Ant Digest V93 #38
